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2,508,659

SEWER FLUSHING AND CLEANING DEVICE

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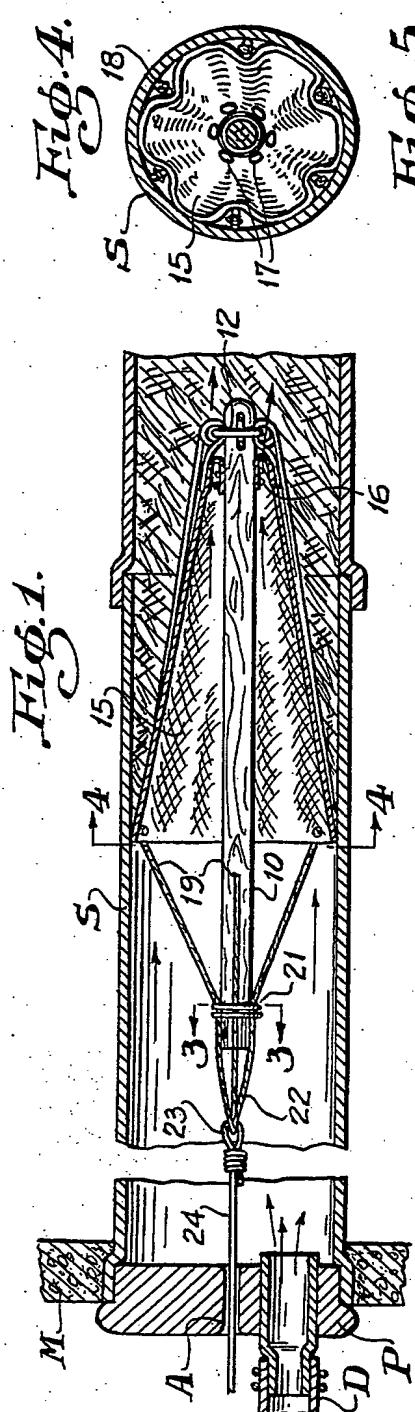


Fig. 4.

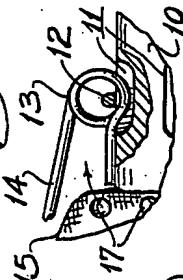


Fig. 5.

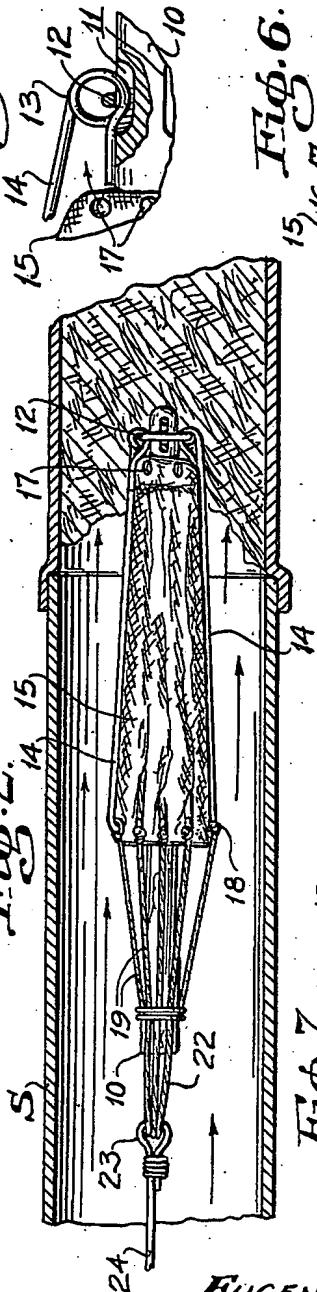
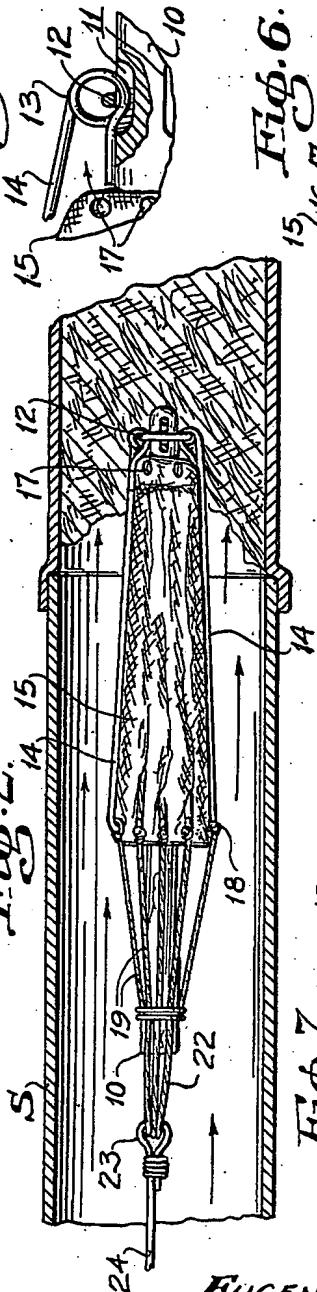
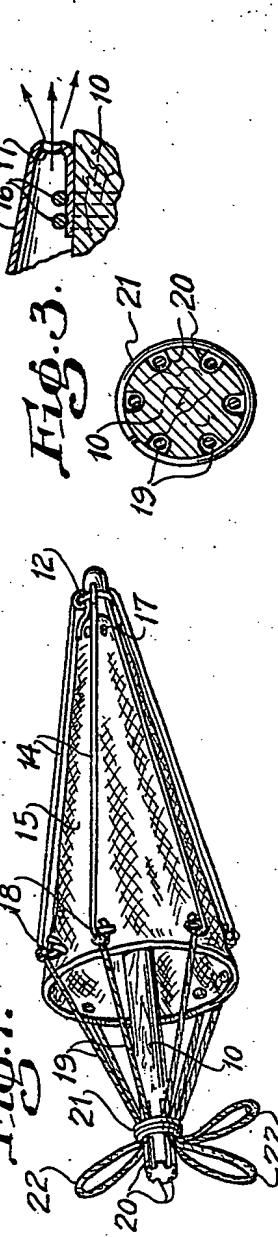
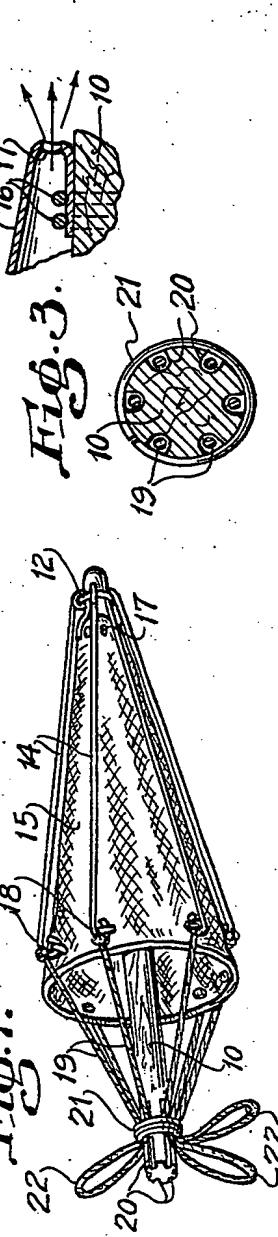


Fig. 6.



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is seated in the end of said pipe, water is permitted to flow from duct D into the sewer pipe, with the result that member 15, under the force of the water and torsional action of springs 13 on stays 14, opens or expands to the position as shown in Figs. 1 and 7, and moves through the pipe until the body of sand or other material that clogs the pipe is encountered.

Jets of water under pressure issue from apertures 17, thereby softening and disintegrating the sewer clogging body and the driving force of the water behind the cleaner, forces same forwardly through the pipe, thereby quickly and effectively removing the body of clogging material.

Should the cleaner fail to pass through the obstruction in the sewer, cable 24 may be pulled rearwardly from a point within the manhole, thereby first collapsing said cleaner, then drawing same away from the obstruction and the pull on said cable is now suddenly released so as to permit the cleaner to expand, and in such condition, driven forcibly against and into the clogging body with a hammer-like blow, which tends to quickly disintegrate and remove said body.

After the obstruction has been removed from the sewer, the cleaner may, by pulling on cable 24, be readily collapsed and drawn from the sewer.

Thus it will be seen that I have provided a clogged sewer cleaner that is simple in structure, inexpensive of manufacture and very effective in performing the functions for which it is intended.

It will be understood that minor changes in the size, form and construction of the various parts

of my improved sewer may be made and substituted for those herein shown and described without departing from the spirit of the invention, the scope of which is set forth in the appended claim.

I claim as my invention:

In a sewer flushing and cleaning device, a rod, a series of stays connected to the forward end of said rod, an elongated conical member of flexible material arranged within said stays, the forward end of which conical member is connected to said rod and provided with a series of jet apertures, the rear end of said flexible member being connected to the rear ends of said stays, the rear end portion of said rod being provided with a series of spaced longitudinally disposed grooves, cords secured to the rear ends of said stays and extending into said grooves and thence rearwardly from the rear end of said rod and a ring surrounding the rear portion of said rod for retaining said cords for movement in said grooves.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
876,566	Lehnert	Jan. 14, 1908
1,035,994	Mueller	Aug. 20, 1912
1,177,629	Johnson	Apr. 4, 1916
1,806,478	Long	May 19, 1931